



AGENDA

**Concrete Products Task Group Meeting
(CT-Industry)
October 9, 2014
Time 10:00 AM to 12:00 PM
Room 514 – Translab – OSM Annex Building
5900 Folsom Blvd.
Sacramento, CA 95814**

Time	Topic	Presented By	Purpose/Endstate
1000 – 1005	Welcome, Attendance and Agenda Review	All Co-Chairs	Meeting Begins
1005 – 1015	Review of Last Meeting's Action Items	All Co-Chairs	Establish/Close-Out Due-Outs
1015 – 1020	Housekeeping Items – The following are to be discussed: <ul style="list-style-type: none"> • Current Print-Out Package • OSM Task Group Website • 2014 Calendar 	Bobby Petska	Ensure all members are postured for success
1020 – 1040	"State of the Industry" Update Brief	Industry Co-Chairs	Ensure key concerns from Industry are heard
Sub-Task Group co-chairs provide update on <ul style="list-style-type: none"> • Progress Reports • Review of Issues, including level of effort and updates to scoping documents • Discuss any recommendations for changes in priorities • Discuss and/or approve new scoping documents UCPRC Discussion – Joe Holland			
1040 – 1100	CIP Pavement Sub-Task Group	Cornelis Hakim/Bruce Carter	STG Co-Chairs provide update on decisions made/concerns for each activity
1100 – 1120	Precast Sub-Task Group	Keith Hoffman/Cliff Ohlwiler	STG Co-Chairs provide update on decisions made/concerns for each activity
1120 – 1140	Materials/QA Sub-Task Group	Keith Hoffman/Mark Hill	STG Co-Chairs provide update on decisions made/concerns for each activity
1140 – 1200	Round Table Discussion, Discussion of Issues, Questions and Action items, including the following: <ul style="list-style-type: none"> • Innocuous Aggregate Authorized Materials List • Bin List for FY 14-15 	All	Document due-outs and decisions made

Concrete Products Meeting Action Item Review

Below is the brief summary and status of action items from the previous TG meetings:

Action Items from 7/10/14 meeting	Due Date	Responsible Person	Status
Post the QCQA Lessons Learned Report onto the RPC Task Group website	9 Oct 2014	Bobby Petska	Complete
Distribute information regarding D7 Rapid Strength Concrete SSP to the Task Group	9 Oct 2014	Kirk McDonald/Mark Hill	Complete
Provide fact sheet regarding Section 40 Rapid Strength Concrete specification creation, including the disallowing of volumetric mixing equipment	18 Aug 2014	Nick Burmas/Cornelis Hakim	Complete
Provide an update of Construction actions on the MPQP/CT109 Updates in response to Director Letter, and send to the Task Group prior to the next meeting	9 Oct 2014	Chuck Suszko/Jim Cotey/Ken Darby	Pending
Provide example of rejected Mix Designs based on lack of annual aggregate source testing approval	9 Oct 2014	Bruce Carter/Cliff Ohlwiler	Pending
Report findings of Aggregate Source testing issues to the Task Group	9 Oct 2014	CT Co-Chairs	Routed for Discussion
Send the final Roller Compacted Concrete specification to the TG for posting onto the TG website.	18 Aug 2014	Cornelis Hakim	Complete
Send the final report capturing the final decision for the COTE specification value to the TG for posting onto the TG website.	18 Aug 2014	Cornelis Hakim	Complete
Discuss the finalizing of the Precast Pavement Specifications based on previous issue resolution	18 Aug 2014	Dan Speer/Nick Burmas/Chuck Suszko	Complete
Gather information from specification development personnel to understand reason for	18 Aug 2014	Keith Hoffman	To be accomplished



changes related to vibratory equipment for precast concrete.			by SP&I in coming days
Garner status on approval of new MPQP language related to Returned Plastic Concrete, and route document once complete.	31 July 2014	Jim Cotey/Chuck Suszko	Pending
Discuss sending the Recycled Concrete Final Specification ahead of the specification moratorium	9 Oct 2014	Dan Speer	Routed
Send Final Letter to Industry capturing changes to Innocuous Aggregate AML duration	9 Oct 2014	Jim Sagar	Complete

Action Items from 4/10/14 meeting	Due Date	Responsible Person	Status
Garner information on CT charging practices for non-project specific materials tests, and relay this information in support of the Annual Aggregate Source Testing effort	10 Jul 2014	Chuck Suszko/Ken Darby	Pending
Distribute the Excel Raw Data for the Annual Aggregate Source Testing survey to Construction	17 Apr 2014	Bobby Petska	Complete
Industry to request a meeting regarding Non-Project Specific materials testing charging practices with pertinent CT personnel	10 Jul 2014	Craig Hennings/Charley Rea	Pending
Update the Attendance Log to reflect updated TG Member information	10 Jul 2014	Bobby Petska	Complete
Begin posting STG Meeting Minutes onto the TG Website	10 Jul 2014	Bobby Petska	Complete
Conduct Final Review of CoTE Report from CIP Pavement STG	30 Apr 2014	All TG Members	Pending
Create a final draft of the "Flexural Strength Testing" Scoping Document by 15 April, prior to the RPC Quarterly Meeting	15 Apr 2014	Chuck Suszko, Ken Darby, Cornelis Hakim, Kirk McDonald,	Complete

		Craig Hennings	
Create a Dispute Resolution Document for the "Precast Pavement" specification to outline the outstanding issues related to this activity, and send to the TG	5 May 2014	Keith Hoffman, Cliff Ohlwiler	Complete
Distribute the "QCQA" Interim Lessons Learned report to the Industry Members of the TG.	10 Jul 2014	Keith Hoffman/Bobby Petska	Complete
Provide an update on when the MPQP Document would be updated to include the new recycled concrete language	30 April 2014	Chuck Suszko/Ken Darby	Pending
Distribute relevant information regarding Southern California project Rapid Strength Concrete SSP/Shrinkage testing for future discussion	10 Jul 2014	Mark Hill/Cornelis Hakim	Pending

Action Items from 1/9/14 meeting	Due Date	Responsible Person	Status
Review and provide comments to the current version of the Task Group Operating Principles, and adopt at next Concrete Task Group Meeting	24 Feb 2014	All TG Members	Adopted

Action Items from 10/10/13 meeting	Due Date	Responsible Person	Status
Provide examples of Mix Designs or Project EA information with aggregate test result discrepancies or concerns	16 Oct 2013	Craig Hennings	Pending
Conduct follow-on discussion regarding Mix Designs or Project EA information with aggregate test result discrepancies or concerns	30 Nov 2013	Bobby Petska/Dan Speer/Keith Hoffman	Pending Mix Designs from Industry

Concrete Products TG Quarterly Meeting Attendance Log as of 9 October 2014

Member	Role	TG Meeting (CT and Industry)													
		7/14/2011	10/13/2011	1/26/2012	4/12/2012	7/12/2012	10/11/2012	1/10/2013	4/11/2013	7/11/2013	10/10/2013	1/9/2014	4/10/2014	7/10/2014	10/9/2014
Dan Speer	Caltrans Co-Chair	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Chuck Suszko	Caltrans Construction	✓	✓			✗	✗	✓	✓	✓	✗	✓	✓	p	
Amy Fong	Caltrans Pavement Program	✗	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓			
Bill Farnbach	Caltrans Pavement Program												✗	✗	
Nick Burmas	Caltrans Research and Innovation													✓	
Roberto Lacalle	Caltrans Struct. Specs & Estmt.	p	✓												
Marcelo Peinado	Caltrans District -11 Engineering	✗	✗												
Dennis Agar	Caltrans District -10 Engineering	✓	✓												
Jeremy Peterson-Self	Co-Chair, Precast Concrete STG					✓	✓	✓	✓						
Keith Hoffman	Co-Chair, Materials/QA & Precast STG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Cornelis Hakim	Co-Chair, Cast In Place Concrete Pavement STG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Mehdi Parvini	Co-Chair, Cast In Place Concrete Pavement STG	✓	✓	✓	✓	✓	✓	✓	✓						
Jinesh Mehta/Bobby Petska	Caltrans, Structural Materials Rep. (note taker)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Charley Rea	Industry Co-Chair-CALCIMA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Kirk McDonald	Industry Co-Chair														✓
Bruce Carter	Industry Co-Chair	✓	✓	✓											✓
Ron Stickel	Industry Co-Chair				✓	✓	✓	✓	✓	✓	✓	✓	✗		
Cliff Ohlwiler	Industry, Co-Chair, Precast Concrete STG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Tom Tietz	Industry, CNCA	✗	✓	✓											
Mark Hill	Industry, Syar				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Bruce Carter	Industry, CIP Pavement STG Co-Chair													✓	
Craig Hennings	Industry, ACPA-SW	✗	✗	✗	✓	✗	✗	✗	✗	✓	✓	✗	✓	✗	

Legend:

✓ Present

✗ Absent

p Pre-designated proxy

STATE OF CALIFORNIA
PAVEMENT PROGRAM STATUS CALENDAR

DEPARTMENT OF TRANSPORTATION

ROCK PRODUCTS
COMMITTEE MEETINGS
CALENDAR

2014

JAN							FEB							MAR						
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26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31			
							30													

Calendar Legend
Quarterly Rock Products Committee (RPC) Meeting
Concrete Task Group 3+2 Meetings (1:30pm - 2:30pm)
State Holidays
Concrete Materials & QA STG Meeting (1:00 - 4:30 pm) - CT only
Concrete Materials & QA STG Meeting (1:00 - 4:30 pm) - All
Precast Subtask Group Meeting (9:00 - 11:30 am) - All
Precast Concrete Subtask Group Meeting (9:00 - 11:30 am) - CT only
Concrete Products Task Group Meeting (10:00-12:00) - All
Concrete Task Group CT Only Meeting (1:00-3:00 pm)-CT only
Cast In Place Pavement Subtask Group Meeting (9:00am - 11:00am)-All
Cast In Place Pavement Subtask Group Meeting (9:00am - 11:00am)-CT Only

Concrete Materials & QA Sub-Task Group: Issue Status Summary, October 2014

Project Priority	Project	Purpose	Overall Progress	Target Completion Date	% Complete
1	Structural Concrete QC/QA Specification Development	Implement performance-based specifications for materials management of structural concrete.	Additional outreach with other pilot projects and Industry to take place. Coordination to continue for scheduling next year's ACI trainings and provide Outreach meetings for new QCQA specification in Northern CA and Southern CA. QCQA spec to be rolled out to all project by end of 2014/beginning of 2015. Use gathered feedback from beta testing of DIME to update and roll out for larger use. Finalize QA guidance report to generate corresponding bulletins for state staff. Amendment to IA manual upcoming, develop long term IA processes. Discuss project lists. Discuss communications with Districts and Contractors (Outreach). Additional outreach with other pilot projects and Industry to take place. Coordination to continue for scheduling next year's ACI trainings and provide Outreach meetings for new QCQA specification in Northern CA and Southern CA. QCQA spec to be rolled out to all project by end of 2014/beginning of 2015. Use gathered feedback from beta testing of DIME to update and roll out for larger use. Finalize QA guidance report to generate corresponding bulletins for state staff. Amendment to IA manual upcoming, develop long term IA processes. Discuss project lists. Discuss communications with Districts and Contractors (Outreach).	6/30/2014	87%
2	Recycled Concrete	Evaluate possibilities for use of recycled (hardened and plastic) concrete	Monthly project team meetings to continue. Next scheduled meeting is on July 10, 2014. Discuss the Section 90 changes related to cement backfill material specification language with the Spec Owners. The carbon footprint savings report was received by project team on June 21, 2013.	7/31/2014	90%
3	Shotcrete Specification Updates	Update the provisions in Section 53 to clarify such factors as SCM content, testing requirements, etc.	Next meeting to be held October 22 with industry. Pea gravel specification update will be reviewed. Group will continue to focus on shotcrete cracking issue. Continue investigating root cause of shotcrete cracking issue. Finalize pea gravel spec wording. Continue investigating water content and coloring.	4/1/2015	10%
4	Flexural Beam Testing in accordance with ASTM (Joint Activity with CIP Pavement STG)	Industry requesting update of ASTM/CTM requirements related to Flexural Test specimen curing, testing, etc.	Teleconference to be held on 9/4/14 to discuss progress and provide updates.	6/30/2015	3%
Bin List Items	Fiber Reinforced Concrete Specification	Develop specifications and design guidelines for the use	Discussion underway at STG level; timeline and necessary deliverables to be clarified	TBD	N/A
	Smog-Eating Concrete	Develop specifications and design guidelines for the use	This item is currently under evaluation. A pilot project is to be selected in the near future, with the goal of capturing lessons learned. A meeting with Caltrans and Lehigh personnel took place on 30 August 2012.	TBD	N/A
	Performance-Based Specifications for concrete	With the latest advances in concrete technology and availability of new tests. move towards performance specifications	Using surface resistivity and other performance criteria refine the specifications from prescriptive to performance	TBD	N/A
	Cubic Yardage Concrete and Aggregate Deduction	Update the provisions in Section 90 to better ensure compliance with Specifications	Discussion underway at STG level; timeline and necessary deliverables to be clarified.	TBD	N/A
	Separate out ASR requirements from green concrete related spec in section 90	Update the provisions in Section 90 to ensure that CO2 reduction goals are captured but independent of ASR Reduction goals	To be developed in conjunction with "ASR Pavement TAP research". Research from ASTM Limestone Cement updates may be incorporated into this activity.	TBD	N/A

Structural Concrete QC/QA Specification Development

Sub Task Group (STG): Materials & QA

Priority: 1

STG Co-Chair: Keith Hoffman

Project Team Lead: John Lammers

Project Team Members: Cathrina Barros, Ruth Fernandes, Austin Perez, Craig Knapp, Mike Cook, Rosme Aguilar, The' Pham, Deepak Maskey, Al Ochoa, Rick Navarro, (CCTIA)

Project Team Advisors: Rita Leahy, Jinesh Mehta, Ken Beede

DEADLINE: 6/30/2013

PERCENT COMPLETE: 87%

OBJECTIVES:

Implement quality control sampling and testing for structural concrete as directed in the decision document signed by the Chief Engineer and Deputy Director of Maintenance and Operations in December 2010. Determine appropriate QC sampling and testing standards as well as acceptance (QA) sampling and testing guidance consistent with federal regulations. These requirements and guidance should be implementable for any project regardless of procurement methods.

ANTICIPATED SPEC-WRITER INVOLVEMENT:

QCQA specification forecasted to be rolled out to all new projects by end of 2014. Continuous efforts to include Prebid Outreach meeting and Section 11-4 language in all Pilot Project Specifications.

RECENT ACTIVITIES:

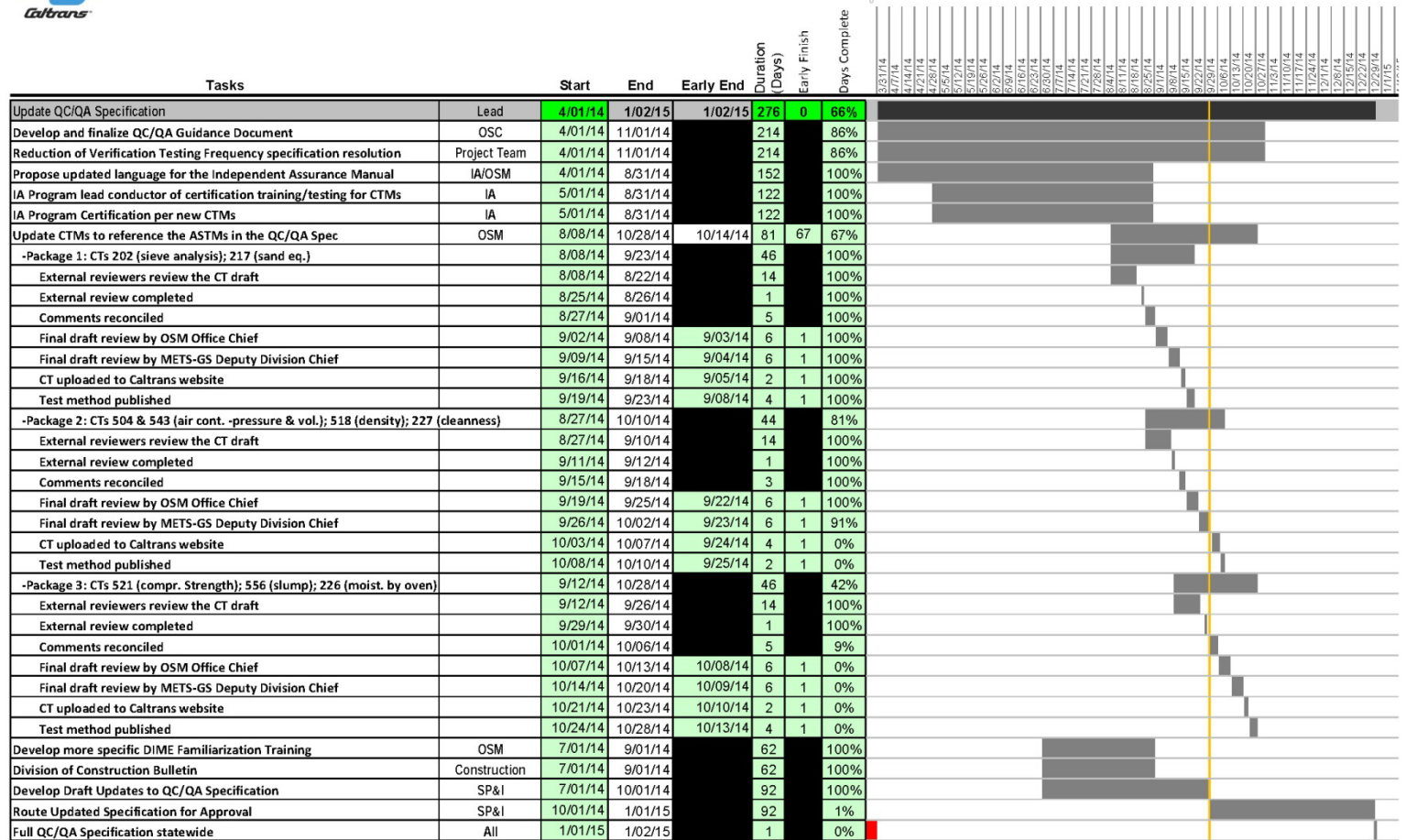
- Sample ID/Test ID Spec change language – Complete
- ACI Training Roster– 7/7 classes of FY 13/14 contract completed. An additional 16-person ACI class was added to Southern CA and took place September 12th and 19th in Los Angeles. FY 14/15 proposed training list submitted to DPAC for approval; training contract includes one 20-person class in Northern CA as remaining ACI training will be facilitated through the Caltrans IA group moving forward.
- Full listings of all Pilot Projects are currently tracked and are continuously updated as needed.
- Coordination of Pre-Bid Outreach Meetings for upcoming Pilot Projects continues:
 - D03 Pilot Project ongoing.
 - D04 Pilot Project – NAP-29 Troutdale Creek Bridge – Pre-Bid Outreach language for included in specifications; outreach presentation to occur near end of September.
 - D04 Pilot Project – San Francisquito- Contract has been postponed to be re-advertised next year. Multiple bid protests led to the project missing its construction window for this construction season.
 - D06 Pilot Project – Project ongoing. Pre Concrete meeting and DIME Training have taken place over the past months.
 - D07 Pilot Project removed from Pilot Project list as Prebid outreach meeting and Section 11-4 language was not included in specifications.
 - D08 Pilot Project – Project ongoing. Approximately 190 QC Tests have been input into DIME.
 - D11 Pilot Project – Project ongoing. Approximately 570 QC Tests have been input.
- QA Guidance Doc Development –continues to be refined. METS currently working with OSC on this assignment. Updates being made to document include FAQ section, DIME instructions, sample QC meeting agenda, QC checklist and sample QC Plan.

UPCOMING ACTIVITIES:

- Additional outreach with other pilot projects and Industry to take place.
- Coordination to continue for scheduling next year's ACI trainings and provide Outreach meetings for new QCQA specification in Northern CA and Southern CA. QCQA spec to be rolled out to all project by end of 2014/beginning of 2015.
- Use gathered feedback from beta testing of DIME to update and roll out for larger use.

- Finalize QA guidance report to generate corresponding bulletins for state staff.
- Amendment to IA manual upcoming, develop long term IA processes.
- Discuss project lists. Discuss communications with Districts and Contractors (Outreach).

Project: RPC QC/QA Specification Update



Use of Recycled Concrete Materials

Sub Task Group (STG): Materials & QA

Priority: 2

STG Co-Chair: Keith Hoffman

**Project Team Lead: Mike Donovan,
Don Vivant**

Project Team Members: Charley Rea, Craig Hennings,
Deepak Maskey, Keith Hoffman,
Jinesh Mehta, Pat Imhoff, Tarek Khan,
Mike Serra, Robert Graine, Paul Fayer,
Ruth Fernandes, Jim Cotey
Basil Miranda, Steven Cook

Project Team Advisors: TBD

DEADLINE: 7/31/2014

PERCENT COMPLETE: 90 %

OBJECTIVES:

By using various appropriate measures and devising clear limitations and practices, activity will examine returned concrete for use as minor (non-structural) concrete without compromising life cycle.

Currently, Caltrans specifications allow *aggregate* from plastic or hardened concrete to be used in road base and in various appropriate applications in new concrete. However, the use is not widely seen and therefore requirements should be evaluated and modified to promote more use for specified applications without compromising life cycle.

ANTICIPATED SPEC-WRITER INVOLVEMENT:

Once the objective is clearly defined and necessary background research is performed, project team will work on coming up with recommended changes. It is likely that Specification involvement will include reviewing the draft Recycled Concrete Section 90 subsection.

RECENT ACTIVITIES:

- Draft MPQP was circulated to industry for review and comment on 6/6/2014.
- Project team met with Climate Earth and Industry to discuss carbon footprint savings for returned plastic concrete on June 4, 2013.
- A field trip was scheduled on September 11, 2013 to observe manufacturing of recycle concrete operations.
- Industry met with Division of Weights and Measures on January 31, 2014 to discuss the MPQP process and understand their concerns.
- Project team meeting took place on June 6, 2014. The project team agreed to the MPQP draft and the draft specifications.

UPCOMING ACTIVITIES:

- Monthly project team meetings to continue.
- Discuss the Section 90 changes related to cement backfill material specification language with the Spec Owners.
- The carbon footprint savings report was received by project team on June 21, 2013.

SCHEDULE AND PROGRESS:

Current target completion date is July 2014.

Shotcrete Specification Requirements in Section 53

Sub Task Group (STG): Materials/QA

Priority: 3

STG Co-Chair: Keith Hoffman, Mark Hill

Project Team Lead: Edward Zhang

Project Team Members: Deepak Maskey, Don Reding,
Ayo Okupe Hampton, Robert Roman,
Mark Hill, Robert Foley,
Robert Hightower

Project Team Advisors: N/A

DEADLINE: 6/30/2015

PERCENT COMPLETE: 10%

OBJECTIVES:

To revise Section 53 to reflect the 3/8" grading requirements found in Section 90 in order to eliminate conflicting grading requirements. There is confusion as to whether the combined grading requirements in Section 90 apply to Section 53 for shotcrete, which include provisions that state: "The 3/8" combined grading requirements in Section 90 do not apply."

To determine the need for Equation 2 for shotcrete as written while keeping the intent of the original specification with regard to ASR and other Department goals. This could include using alternatives currently allowed for precast and pavement mixes (or a combination of the two).

To determine the need for the requirement on maximum water allowed per section 90-1.02G(6) based on proposed above changes and standard industry practices.

Consider the use of allowing alternative coloring systems for Shotcrete in the specifications.

ANTICIPATED SPEC-WRITER INVOLVEMENT:

Some involvement needed to revise Section 53 of the Standard Specifications and SSPs as necessary.

RECENT ACTIVITIES:

Formed initial project team, and held informal meetings coordinating future activities.

CT and industry met on 24 September. Team discussed adding additional members. Pea gravel specification was discussed. Ayo Okupe will be drafting updated language. Robert Roman shared his experience with shotcrete failure on Highway 12 project. No conclusion was formulated based on the presented data. Don Redding requested to bring a Caltrans Design engineer onto the team to help with further investigations. Team will address water content and coloring in upcoming months.

UPCOMING ACTIVITIES:

For the next month:

- Next meeting to be held October 22 with industry. Pea gravel specification update will be reviewed. Group will continue to focus on shotcrete cracking issue.

For the next two months:

- Continue investigating root cause of shotcrete cracking issue. Finalize pea gravel spec wording. Continue investigating water content and coloring.

Flexural Strength Testing

Sub Task Groups (STG): Materials/QA & CIP Pavement

Priority: 4

STG Co-Chairs: Keith Hoffman

Project Team Lead: Deepak Maskey

Project Team Members: Deepak Maskey, Mehdi Parvini
Keith Hoffman, Jim Sagar, Ken Darby, Doran Glauz,
Bruce Carter, George Butorovich, Mark Hill, Marc Robert,
Robert Hightower, Francisco Romero, Zacery Brown

Project Team Advisors: N/A

DEADLINE: 7/1/2015

PERCENT COMPLETE: 10%

OBJECTIVES:

To come to an agreement as to which of the test methods previously identified will satisfy both Caltrans and industry with regard to acceptance testing.

Identify current practices throughout the state in regards to CT 523 management and certification for all technicians performing these tests and the accreditation of Caltrans and third party testing laboratories.

Provide a recommendation on a path forward in regards to flexural strength testing.

ANTICIPATED SPEC-WRITER INVOLVEMENT:

Some involvement needed in final review of SSPs and in compiling input from various stakeholders.

RECENT ACTIVITIES:

A kick-off meeting was held on July 31. Sub-teams were formed to address each of the deliverables individually. The first deliverable to be addressed is summarizing current practices within Caltrans and other State DOTs.

A follow up teleconference was held on September 4th to discuss the team's overall progress. The team indicated that information has been gathered from other State DOTs. It was also discussed that the documentation relating to the development of CTM 523 has been located and is being reviewed.

Meetings on 23 September and 1 October finalized two surveys. One survey will be sent to Caltrans DOT only, and one survey will be sent to industry. Both surveys will gather relevant information about CTM 523.

UPCOMING ACTIVITIES:

For the next month:

- Continued efforts to summarize current practices within Caltrans and other State DOTs (including testing, staff certification, lab certification, certification frequency, what accreditations are the labs obtaining, etc.) Summary of current guidelines within Caltrans (and other State DOTs) including the IA Manual and Construction Manual.
- Develop summary of investigation of factors influencing performance of CT 523/ASTMs/Other State DOT Test methods.

For the next two months:

- Develop summary of any available data supporting the development or subsequent research related to CT 523 and similar ASTM test methods.

CIP Concrete Pavement Sub-Task Group: Issue Status Summary, October 2014

Priority	Project	Purpose	Overall Progress	Target Completion Date	% Complete
1	Roller Compacted Concrete	Develop standard provisions for the use of Roller Compacted Concrete	Draft special provisions are ready for implementing on trial project. Incorporated into one project in District 7	12/30/2013	100%
2	Flexural Beam Testing in accordance with ASTM (Joint Activity with CIP Pavement STG)	Industry requesting update of ASTM/CTM requirements related to Flexural Test specimen curing, testing, etc.	Teleconference to be held on 9/4/14 to discuss progress and provide updates.	6/30/2015	3%

Precast Concrete Sub-Task Group: Issue Status Summary, October 2014					
Project Priority	Project	Purpose	Overall Progress	Target Completion Date	% Complete
1	Precast Pavement Specification Development	Develop comprehensive departmental guidance or standard approach on the use of precast concrete pavement.	Finalize plans and specifications. Work to bring the activity to a close.	12/31/2013	99%
2	Prestressing Jack Equipment calibration	Updating this specification will provide clear guidelines in the specifications consistent with current practice. Removing the requirement to ship large sensitive equipment to Sacramento for calibration will assure accurate calibrations and will eliminate unnecessary costs to both Caltrans and Industry. Reviewing and updating equipment requirements will assure that the specifications are consistent with modern technology while maintaining the desired accuracy.	Meeting with industry is being scheduled for November to discuss draft specification. Capture comments from industry based on November meeting and reword specification update as needed.	6/30/2015	20%

Precast Pavement Specification Development

Sub Task Group (STG): Precast

Priority: 1

STG Co-Chair: Keith Hoffman

Project Team Lead: Mehdi Parvini

Project Team Members: Doug Mooradian, Ruth Fernandes, Jim Ma, Jim Cotey, Tinu Mishra, Kirsten Stahl, Debbie Wong, Jonathan den Hartog, Shiraz Tayabaji, Tracy Vacura, Dave Merritt, John Grafton, Ziad Sakkal, Bobby Petska, Steve Healow, Sharon Hansen

Project Team Advisors: N/A

DEADLINE: 12/31/2013

PERCENT COMPLETE: 99%

OBJECTIVES:

Precast concrete pavement systems were developed as an alternative for fast-setting cements or asphalt pavement systems in cases where a highway closure for longer than six hours is not a viable option. These systems are also beneficial in cases where high concrete durability and long pavement life are desired.

Although a few precast concrete pavement projects have already been built throughout the state, there is no comprehensive departmental guidance or standard approach on the use of precast concrete pavement.

ANTICIPATED SPEC-WRITER INVOLVEMENT:

Some involvement needed in final review of SSPs and in compiling input from various stakeholders.

RECENT ACTIVITIES:

There were several items in the draft specifications that were under dispute. The Subtask Group drafted position papers to submit to the Task Group for consideration. The RCP operating principles and dispute resolution process were followed. All disputes have all been resolved.

UPCOMING ACTIVITIES:

For the next month:

- Finalize plans and specifications. Work to bring the activity to a close.

For the next two months:

- Lessons Learned documents will continue to be captured throughout Fall of 2014 for all ongoing Precast Pavement projects.

Update Precast Stress Jack Requirements in Specifications

Sub Task Group (STG): Precast

Priority: 2

STG Co-Chair: Keith Hoffman

Project Team Lead: Paul Lukkarila

Project Team Members: Rob Ramos, Paul Fayer

Project Team Advisors: N/A

DEADLINE: 6/30/2015

PERCENT COMPLETE: 20%

OBJECTIVES:

Updating this specification will provide clear guidelines in the specifications consistent with current practice. Removing the requirement for METS calibration of jack equipment will help ensure accurate calibrations and will eliminate unnecessary costs to both Caltrans and Industry. Reviewing and updating equipment requirements, including digital and jack-integrated gauges, will assure that the specifications are consistent with modern technology while maintaining the desired accuracy.

ANTICIPATED SPEC-WRITER INVOLVEMENT:

Some involvement needed in revising Section 50-1.01D(3) Equipment and Calibration of the Standard Specifications.

RECENT ACTIVITIES:

- Team members Rob Ramos, Paul Lukkarila, and Bob Kim met to discuss scoping document
- Paul Fayer from Spec Development assigned to team
- Bob Kim visited Pacific Calibration to discuss their current calibration services at Confab and Kiecon.
 - Pacific Calibration is A2LA certified with a scope of accreditation that includes ASTM E4
 - Pacific Calibration's calibration equipment conforms to ASTM E74 with traceability to National Institute for Standards and Technology (NIST).
 - It is recommended that third-party calibration companies be ISO 17025 certified with calibration procedures conforming to ASTM E4
- Rob Ramos witnessed regularly scheduled jack equipment calibration performed by Pacific Calibration at Confab, Lathrop on Thursday 9/4.
- Internal meeting on 9/30/14. Drafted specification update.

UPCOMING ACTIVITIES:

For the next month:

- Meeting with industry is being scheduled for November to discuss draft specification.

For the next two months:

- Capture comments from industry based on November meeting and reword specification update as needed.